



FIG. 1

P4 P1 1

1 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAOPWGAPEVEVESFLVHPGDLIQLRCRLRDDVQSINWLRDGVOLAE 75  
2 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAOPWGAPEVEVESFLVHPGDLIQLRCRLRDDVQSINWLRDGVOLAE 75  
3 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAOPWGAPEVEVESFLVHPGDLIQLRCRLRDDVQSINWLRDGVOLAE 30  
4 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAOPWGAPEVEVESFLVHPGDLIQLRCRLRDDVQSINWLRDGVOLAE 30  
5 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAOPWGAPEVEVESFLVHPGDLIQLRCRLRDDVQSINWLRDGVOLAE 30  
6 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAOPWGAPEVEVESFLVHPGDLIQLRCRLRDDVQSINWLRDGVOLAE 30

ARR

SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPNP 148  
SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPNP 150  
DALPSSSEDDDDDDSSSEKETDNTKPNP 59  
DALPSSSEDDDDDDSSSEKETDNTKPNP 61  
DALPSSSEDDDDDDSSSEKETDNTKPNP 59  
DALPSSSEDDDDDDSSSEKETDNTKPNP 61

2

VAPYWTSPKMEKKLHAVPAAKTVKFKCPSSTGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 223  
VAPYWTSPKMEKKLHAVPAAKTVKFKCPSSTGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 225  
VAPYWTSPKMEKKLHAVPAAKTVKFKCPSSTGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 134  
VAPYWTSPKMEKKLHAVPAAKTVKFKCPSSTGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 136  
VAPYWTSPKMEKKLHAVPAAKTVKFKCPSSTGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 134  
VAPYWTSPKMEKKLHAVPAAKTVKFKCPSSTGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 136

3

GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVAGLSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 298  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVAGLSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 300  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVAGLSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 209  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVAGLSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 211  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVAGLSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 209  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVAGLSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 211

P2

GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHSAWLTVLEALEERPAMVTSPLYL 373  
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHSAWLTVLEALEERPAMVTSPLYL 375  
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHSAWLTVLEALEERPAMVTSPLYL 284  
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHSAWLTVLEALEERPAMVTSPLYL 286  
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHSAWLTVLEALEERPAMVTSPLYL 284  
GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHSAWLTVLEALEERPAMVTSPLYL 286

TM

EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 448  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 450  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 359  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 361  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 300  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 302

TK

SSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFQGVVLAFAIGLDKDKPNRVTKVAVKMLKSDATEKDL 523  
SSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFQGVVLAFAIGLDKDKPNRVTKVAVKMLKSDATEKDL 525  
SSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFQGVVLAFAIGLDKDKPNRVTKVAVKMLKSDATEKDL 434  
SSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFQGVVLAFAIGLDKDKPNRVTKVAVKMLKSDATEKDL 436

SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPPEQLSSKDL 598  
SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPPEQLSSKDL 600  
SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPPEQLSSKDL 509  
SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPPEQLSSKDL 511

VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFLGARDIHHIDYKKTNGRLPVKMAPEALFDR 673  
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFLGARDIHHIDYKKTNGRLPVKMAPEALFDR 675  
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFLGARDIHHIDYKKTNGRLPVKMAPEALFDR 584  
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFLGARDIHHIDYKKTNGRLPVKMAPEALFDR 586

TK

IYTHQSDVWSFGVLLWEIFTLGGSPYPGVFVEELFKLLKEGHRMDKPSNCTNELYMMRDCWHAVPSORPTFKQL 748  
IYTHQSDVWSFGVLLWEIFTLGGSPYPGVFVEELFKLLKEGHRMDKPSNCTNELYMMRDCWHAVPSORPTFKQL 750  
IYTHQSDVWSFGVLLWEIFTLGGSPYPGVFVEELFKLLKEGHRMDKPSNCTNELYMMRDCWHAVPSORPTFKQL 659  
IYTHQSDVWSFGVLLWEIFTLGGSPYPGVFVEELFKLLKEGHRMDKPSNCTNELYMMRDCWHAVPSORPTFKQL 661

VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSGSDSVFSHEPLPEEPCLPRHPAQLANGGLKRR\* 820  
VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSGSDSVFSHEPLPEEPCLPRHPAQLANGGLKRR\* 822  
VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSGSDSVFSHEPLPEEPCLPRHPAQLANGGLKRR\* 731  
VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSGSDSVFSHEPLPEEPCLPRHPAQLANGGLKRR\* 733

FIG. 2